J. LAZUKA.

FIRE ESCAPE.

APPLICATION FILED DEC. 31, 1918.

1,309,950.

Patented July 15, 1919.

2 SHEETS—SHEET 1.

FIG. 1.

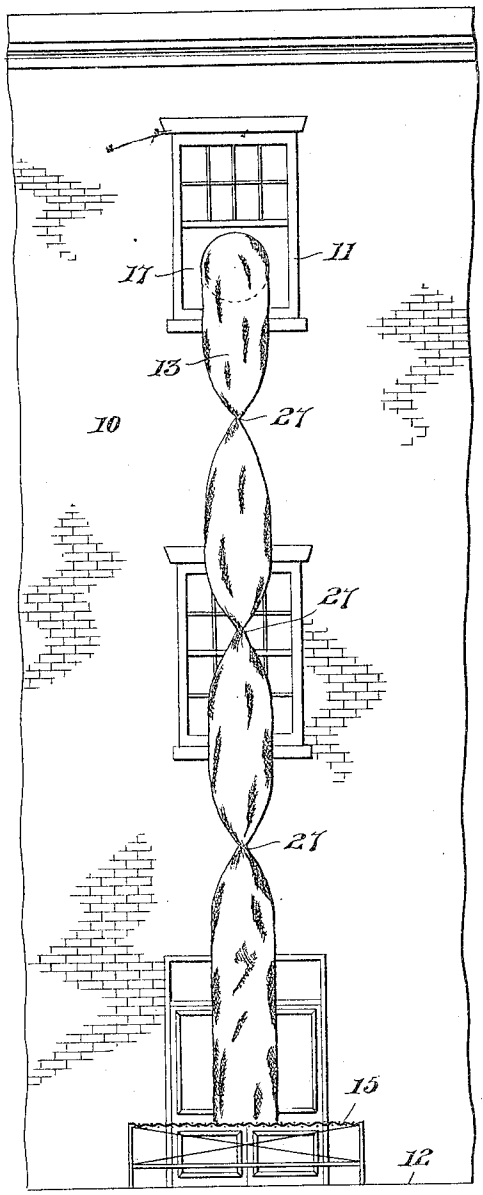
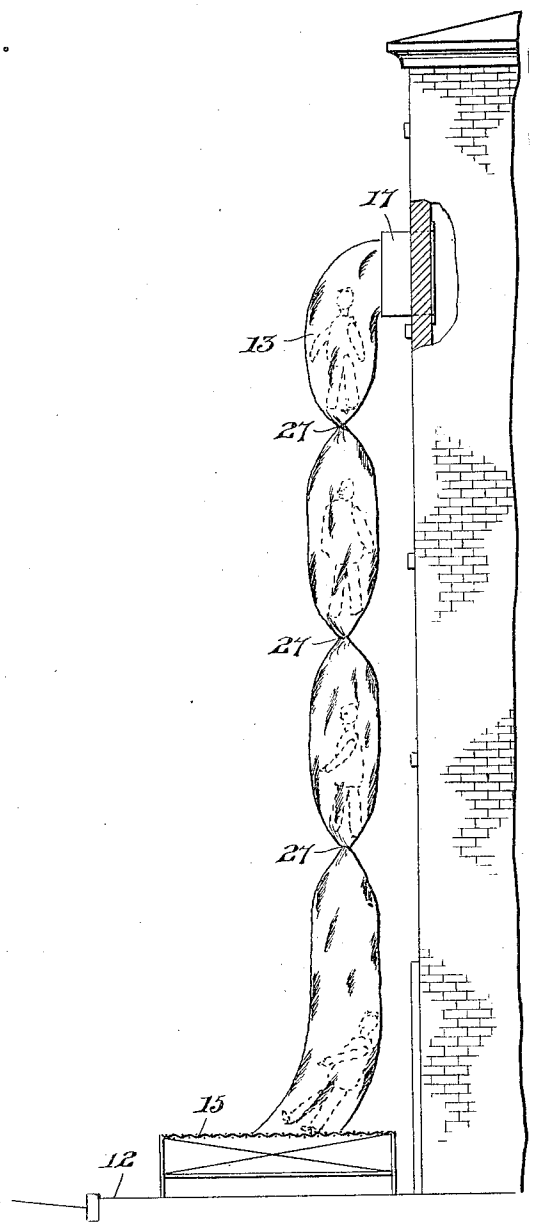


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3.

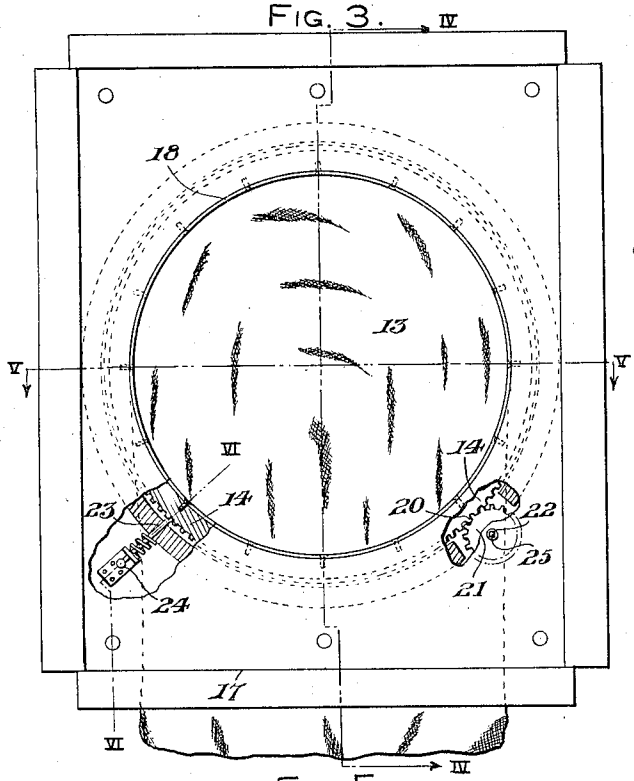


FIG. 4.

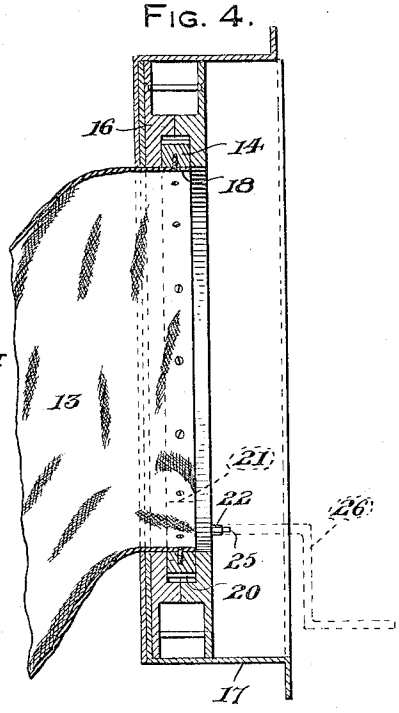


FIG. 5.

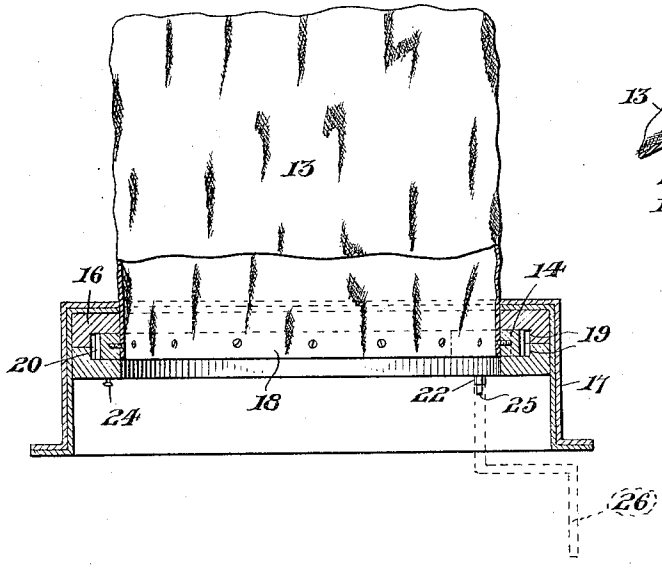
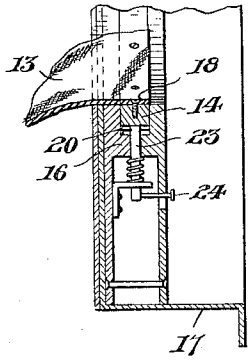


FIG. 6.



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JOSEPH LAZUKA, OF NEWARK, NEW JERSEY.

FIRE-ESCAPE.

1,309,950. Specification of Letters Patent. Patented July 15, 1919.

Application filed December 31, 1918. Serial No. 269,079.

To all whom it may concern:

Be it known that I, JOSEPH LAZUKA, a citizen of Ukraine, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Fire-Escapes, of which the following is a specification.

The primary object of the invention is the provision of an inexpensive fire escape for buildings whereby many persons may descend from the upper windows of a building to the ground with perfect safety and quickly whenever desired, the device possessing great strength and durability.

A further object of the invention is to provide a fire-escape associated with an upper window of a building, the device occupying but little space when not in use.

With these general objects in view, the invention consists in the novel combination and arrangement of parts hereinafter fully described in connection with the accompanying drawings in which like reference characters designate corresponding parts throughout the several views.

In the drawings,

Figure 1 is an elevational view of a building illustrating the use of my invention.

Fig. 2 is a side view thereof with the persons who are leaving the building indicated by dotted lines.

Fig. 3 is a rear elevation of the portion of the invention normally carried by a window of the building.

Fig. 4 is a vertical sectional view taken upon line IV—IV of Fig. 3.

Fig. 5 is a horizontal sectional view taken upon line V—V of Fig. 3 with a portion of the life saving member shown in top plan view and

Fig. 6 is a detail sectional view taken upon line VI—VI of Fig. 3.

My invention in fire escapes is herein illustrated in connection with a three story building 10, whereby persons may safely descend from the upper story window 11 to a suitable point upon the ground 12 with safety and rapidity. The invention broadly consists of a flexible tube or chute 13, formed of such material as strong canvas and having its upper inlet end provided with a hoop 14 through which a person may enter the tube from the window 11 to descend onto a receiving member such as a spring bed 15 positioned beneath the window 11 upon the ground 12.

A rectangular frame 16 is secured in one-half of the window 11 by means of a metal casing 17 or any other suitable manner while the hoop 14 is revolubly mounted in a circular central opening 18 of the frame 16, by such means as the forming of the frame 16 in two parts provided with annular coöperating grooves 19 for mounting the hoop 14 therein.

The said hoop 14 is substantially in the form of a gear having peripheral teeth 20 thereon in constant mesh with a pinion 21 journaled at one side of the hoop 14 in the frame 16 and having a hub 22 projecting inwardly of the frame 16. A spring pressed latch bolt 23 is carried by the frame 16 and is adapted for normally engaging the teeth 20 of the hub 17 but may be readily released therefrom by a finger piece 24 projecting inwardly of the frame 16.

A squared portion 25 of the hub 22 is adapted for engagement by a crank 26 illustrated by dotted lines in Figs. 4 and 5 of the drawings, whereby the hoop 14 may be manually revolved from a point within the window 11 when the latch bolt 23 is held retracted by means of the finger piece 24. The upper end or mouth of the tube 13 is always maintained open by the hoop 14 so that a person may readily enter the said tube and pass therethrough downwardly to the ground 12 or mattress 15, the rapidity of descent being regulated by the person in engaging his arms and legs against the sides of the canvas tube 13. When a number of persons are desirous of quickly descending to the mattress 15, one person may enter the tube while another person, such as a fireman stationed within the building 10, may turn the crank 26 to revolve the hoop 14 and twist the tube 13 as shown at 27 in Figs. 1 and 2 of the drawings so that another person entering the tube at a point above the twisted portion thereof will be in a separate compartment. The different persons within the tube will be prevented from coming in contact with each other by this arrangement while the twisted portions 27 would decrease the rate of travel of the persons downwardly through the tube. The hoop 14 may be continuously revolved for turning the tube 13 during the entire life saving operation if found desirable. When the invention is not in use, the tube 13 may be retracted through the hoop 14 and positioned within the building 10 at a point ad-

jacent the window 11, ready for immediate use by thrusting the tube outwardly through the hoop 14. While the mattress or bed 15 is desirable, any other cushioning means may be employed, if desired, such as hay or any waste material that may be at hand for positioning beneath the window 11.

What I claim as new is:—

1. A fire escape comprising a hoop adapted for rotatable mounting in the window of a building, a flexible tube having one end thereof secured open to the said hoop and adapted for depending outwardly of a window and means for rotating said hoop during the operation of the device.

2. In combination, a mounting frame, a hoop rotatably carried by said frame and a person receiving flexible tube having an open mouth secured to said hoop, the said tube being adapted for twisting during the turning of said hoop.

3. A fire escape comprising a casing adapted to be secured within a window, a frame secured within said casing and having a circular opening therethrough, a toothed hoop mounted to revolve within the said opening of the frame, a flexible tube having an open end secured within said hoop and means for twisting the tube operatively engaging the teeth of said hoop.

4. A fire escape comprising a casing adapted to be secured within a window, a frame secured within said casing and having a circular opening therethrough, a toothed hoop mounted to revolve within the said opening of the frame, a flexible tube having an open end secured within said hoop, a pinion journaled in said frame in constant mesh with the teeth of said hoop, a squared hub upon said pinion adapted for receiving an operating member and a spring pressed latch carried by the frame adapted for normally engaging the teeth of the hoop.

In testimony whereof I affix my signature.

JOSEPH LAZUKA.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."